



# *Agenda for Thursday DAQ/Trigger Parallel Session*

Peter Wilson 1  
Collaboration Meet  
May 31, 2001

## 1:00-2:30 Diagnostic/Alternate Readout Lists

- Event Readout Size - Arnd(20min)
  - What banks should have a diagnostic version?
  - Implementation issues for FER
- Needs for Trigger Monitoring
  - XFT (XFFD bank) (10min)
  - XTRP (XTRD bank) (10min)
- Needs for BSC (FDLD)(10min)
- Needs for CLC (10min)
- Discussion of Implementation Issues and Testing plan with the following representatives:
  - L2 - Stephen M
  - TS - Andrew M
  - Monitoring – Kaori

## 2:30-4:00 L2 Trigger Status and Planning

- Subsystem Status:
  - Alpha: Stephen Miller
  - Cluster finder: Monica Tecchio
  - Cluster list: John Carlson
  - Isolist: Steve Kuhlman
  - L1 interface: Steve, Greg
  - L2 muon: (Michigan person)
  - Reces: Karen Byrum
  - Track board: Jane Nachtman
- Commissioning Plan - All with template from Stephen Miller



# *Diagnostic/Specialized Bank Readout*

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- Designed into Trigger/DAQ architecture feature that allows for different readout list for different events.
  - Up to 8 different list possible (current definitions – cdf4469)
    - 0 default
    - 1 YMON
    - 2 Plug Calorimeter
    - 3 Trigger
    - Others(?): Luminosity, Forward
  - Readout list for particular event selected by L2 processor and passed to TS
  - TS sends configuration message to each FE processor to change to a new readout list for the next L2A
  - FE readout code then executes a different readout
    - Simplest version is to have cards that are not read for one readout list but are for another
    - More complicated version might read the first 5 words for normal events then read 20 words for a diagnostic event



# *Diagnostic Bank Readout - Implementation Questions*

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- Which events should have trigger diagnostic readout?
  - A prescaled selection of all L1 or L2 triggers?
  - X-ing or Minbias triggers?
  - A specific mix of triggers?
- Do events with a different readout list always have a different L2 Trigger and hence path? This would make selecting these events for analysis easier but may be complicated if the desire is for all L1 triggers with a Prescale=10,000.
- Does TRIGMON only get events with Trigger diagnostic banks? Does it get all events with diagnostic banks? How?
- For CLC are there ways that using special readout lists can provide a path for more detailed data for understanding luminosity? Maybe on Xing triggers?
- For BSC are there ways that using special readout lists can provide a path for more detailed data for understanding losses and or diffractive events? On what triggers?
- When do we start using more than one readout list?